2nd Workshop on Child, Computer and Interaction

Cambridge, MA, USA – MIT Media Lab

5 November 2009
Technical Program

Thursday, 5 November 2009

09:00 – 09:15	**Welcome Message** – *Shrikanth Narayanan*
09:15 – 10:15	**Invited Talk** Chair: *Shrikanth Narayanan*
09:15 – 10:15	Conversations with a Virtual Science Tutor in Multimedia Learning Environments *Wayne Ward and Ronald Cole*

10:15 – 13:00	**Oral Presentations** Chair: *Elmar Nöth*
10:15 – 10:35	Fantasy, Curiosity and Challenge as Adaptation Indicators in Multimodal Dialog Systems for Preschoolers *Theofanis Kannetis, Alexandros Potamianos, Georgios N. Yannakakis*
10:35 – 10:55	Comparison of Child-Human and Child-Computer Interactions based on Manual Annotations *Matthew Black, Jeannette Chang, Jonathan Chang, Shrikanth Narayanan*
10:55 – 11:20	**Coffee Break**
11:20 – 11:40	Interacting with Stories *Ashley Robinson, Chao Peng, Francis Quek, Yong Cao*
11:40 – 12:00	Whole Body Interaction for Child-Centered Multimodal Language Learning *Alberto Gonzalez, John Borland, Kathleen Geraghty*
12:00 – 12:20	Automatic Childhood Autism Detection by Vocalization Decomposition with Phone-like Units *Dongxin Xu, Jeffrey Richards, Jill Gilkerson, Umit Yapanel, Sharmistha Gray, John Hansen*
12:20 – 12:40	Towards a Language-independent Intelligibility Assessment of Children with Cleft Lip and Palate *Tobias Bocklet, Andreas Maier, Korbinian Riedhammer, Elmar Nöth*
12:40 – 13:00	A Review of ASR Technologies for Children's Speech *Matteo Gerosa, Diego Giuliani, Shrikanth Narayanan, Alexandros Potamianos*
13:00 – 14:30	**Lunch**

14:30 – 16:00   **Poster Presentations**
(All presenters are expected to be present during both poster sessions)

14:30 – 15:15   **Poster Session I**
Chair: *Diego Giuliani*

– Assessing the Stress/Neutral Speech Environment in Adult/Child Interactions for Applications in Child Language Development (PP1)
Sanjay Patil, John Hansen, Jill Gilkerson, Sharmistha Gray, Dongxin Xu

– Automatic Classification of Reading Disorders in a Single Word Reading Test (PP2)
Andreas Maier, Stefanie Horndasch, Elmar Nöth

– Robustness Optimization of a Speech Interface for Child-Directed Embedded Language Tutoring (PP3)
Oliver Jokisch, Horst-Udo Hain, Rico Petrick, Rüdiger Hoffmann

– Avoiding Speaker Variability in Pronunciation Verification of Children's Disordered Speech (PP4)
Oscar Saz, Eduardo Lleida, W.-Ricardo Rodriguez

– Comparing Child and Adult Language: Exploring Semantic Constraints (PP5)
Ismaïl El Maarouf, Farida Saïd, Jeanne Villaneau, Dominique Duhaut

– Pilot Experiments on Children's Voice Recording (PP6)
Sawit Kasuriya and Alistair D. N. Edwards

– Recognizing Child's Emotional State in Problem-Solving Child-Machine Interactions (PP7)
Serdar Yildirim, Shrikanth Narayanan

15:15 – 16:00   **Poster Session II**
Chair: *Kay Berkling*

– Learning Meaningful Units from Multimodal Input and the Effect of Interaction Strategies (PP8)
Louis ten Bosch, Lou Boves, Okko Räsänen

– Child Selection of Learning Methods: A Corpus Based on Real-World Data (PP9)
Heikki Ruuska, Shinya Kiriyama, Yoichi Takebayashi

– Preliminary Study of Stress/Neutral Detection on Recordings of Children in the Natural Home Environment (PP10)
Umit Yapanel, Dongxin Xu, John Hansen, Sharmistha Gray, Jill Gilkerson, Jeffrey Richards

– From Competitive to Social Two-player Videogames (PP11)
Jesús Ibáñez Martínez, Carlos Delgado-Mata

– Incorporating Music into the Study of Algorithms and Computer Programming (PP12)
Takeo Tatsumi, Yoshiaki Nakano, Kiyoshi Tajitsu, Haruhiko Okumura, Yasunari Harada

– An Automatic Screening Test for Preschool Children: Theory and Data Collection (PP13)
Tobias Bocklet, Cordula Winterholler, Andreas Maier, Maria Schuster, Elmar Nöth

– Upper Limb Rehabilitation and Evaluation of Children Using a Humanoid Robot (PP14)
Douglas Brooks, Ayanna Howard

16:00 – 16:15   **Coffee Break**

16:15 – 18:30   **Brain Storming Session**
Chair: *Alexandros Potamianos*